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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/348,891	07/06/1999	ANTONIUS A.C.M. KALKER	PHN-17.025	5906

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PHILIPS INTELLECTUAL PROPERTY & STANDARDS
P.O. BOX 3001
BRIARCLIFF MANOR, NY 10510

EXAMINER

FLETCHER, JAMES A

ART UNIT	PAPER NUMBER
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2621

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	02/23/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

09/348,891

Applicant(s)

KALKER ET AL.

Examiner

James A. Fletcher

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 January 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4, 6 and 7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 6 and 7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 26 January 2007 has been entered.

Response to Arguments

2. Applicant's arguments filed 26 January 2007 have been fully considered but they are not persuasive.

In re page 5, Applicant's Representative states: "Itoh does not teach or suggest accumulating spatially corresponding coefficients of at least one picture of one frame of the video signal, as recited in claim 1".

The Examiner believes that this argument is not supported by the environment of the application, if it is meant to state that one and only one frame of the video signal is subject to accumulation of spatially corresponding coefficients, as that would preclude the possibility of a moving image, as video is known to be. Further, as is known to those of skill in the art, a video signal is comprised of a series of individual images or frames, each of which is a picture that can be processed according to the application.

Claim Rejections - 35 USC § 102

Art Unit: 2621

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-4 and 6 are rejected under 35 U.S.C. 102(e) as being anticipated by Itoh et al (6,700,989).

Regarding claims 1 and 4, Itoh et al disclose a method and means of detecting a watermark in a compressed video signal comprising spectral coefficients obtained by transforming pictures of said video signal (Col 29, lines 55-56 “compressed data are expanded by an MPEG decoder 56”), comprising:

- accumulating spatially corresponding coefficients of at least one picture of one frame of the video signal (Col 29, lines 55-56 “compressed data are expanded by an MPEG decoder 56”) wherein a picture is an array of pixels having the same size as the watermark (Col 16, lines 22-24 “the two-dimensional pattern as the copyright information to be inserted has the size of Lx dots [in width] Ly dots [in height]”);
- inverse transforming said accumulated coefficients into an accumulated plurality of pictures (Col 29, lines 55-56 “compressed data are expanded by an MPEG decoder 56”); and

Art Unit: 2621

- detecting the watermark in said accumulated plurality of pictures (Col 3, lines 20-23 “a scheme wherein the electronic watermark is superposed on and inserted into sampled value regions of two dimensions or three dimensions” and Col 4, lines 44-46 “The digital detection of the DHS watermark is easy in various areas [moving image data, compressed data, transmission data, sector data, etc.]”).

Regarding claims 2 and 3, Itoh et al disclose a method of detecting a watermark wherein the encoded video signal includes predictively encoded pictures including motion vectors and wherein the step of accumulating coefficients is applied to the coefficients representing the residual pictures irrespective of coefficients representing the prediction picture and irrespective of said motion vectors (Col 29, lines 55-56 “compressed data are expanded by an MPEG decoder 56”).

Regarding claim 6, Itoh et al disclose a device for recording and/or playing back a compressed video signal comprising means for disabling recording and/or playback of the video signal in dependence upon the presence of a watermark in the video signal (Col 4, lines 42-43 “The copy restriction mode is easily detected by a video recording/reproduction device” and Col 29, lines 56-58 “the display 59 of the watermarked moving image [53] is presented by a display device 57 in the case where the reproduction is permitted”) detected as described above.

Regarding claim 7, Itoh et al disclose a method of detecting a watermark in a compressed video signal comprising spectral coefficients obtained by transforming at

Art Unit: 2621

least one picture of said video signal (Col 29, lines 55-56 "compressed data are expanded by an MPEG decoder 56"), comprising:

- accumulating spatially corresponding coefficients of at least one picture (Col 29, lines 55-56 "compressed data are expanded by an MPEG decoder 56"), wherein the accumulated coefficients comprise less data than one frame of the video signal (Col 16, lines 22-24 "the two-dimensional pattern as the copyright information to be inserted has the size of Lx dots [in width] Ly dots [in height]");
- inverse transforming the accumulated coefficients into an accumulated plurality of pictures (Col 29, lines 55-56 "compressed data are expanded by an MPEG decoder 56"); and
- detecting the watermark in the accumulated plurality of pictures (Col 3, lines 20-23 "a scheme wherein the electronic watermark is superposed on and inserted into sampled value regions of two dimensions or three dimensions" and Col 4, lines 44-46 "The digital detection of the DHS watermark is easy in various areas [moving image data, compressed data, transmission data, sector data, etc.]").

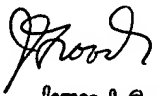
Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Fletcher whose telephone number is (571) 272-7377. The examiner can normally be reached on 7:45-5:45 M-Th, first Fridays off.

Art Unit: 2621

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Groody can be reached on (571) 272-7950. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JAF
14 February 2007


James J. Groody
Supervisory Patent Examiner
Art Unit 2621 2621